

SEQLIST.TXT

SEQUENCE LISTING

<110> Albert, Lai

<120> NOVEL SPLICE VARIANTS OF HUMAN Dkk1

<130> PP023359.0003

<140> 10/574182

<141> 2007-05-31

<150> PCT/US04/34256

<151> 2004-09-30

<150> 60/507682

<151> 2003-09-30

<160> 26

<170> FastSEQ for windows Version 4.0

<210> 1

<211> 819

<212> DNA

<213> homo sapien

<400> 1

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<210> 2

<211> 242

<212> PRT

<213> homo sapien

<400> 2

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Met Gly Glu Ala Ser Pro Pro Ala Pro Ala Arg Arg His Leu Leu Val
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Leu Leu Leu Leu Leu Ser Thr Leu Val Ile Pro Ser Ala Ala Ala Pro
 20           25           30
Ile His Asp Ala Asp Ala Gln Glu Ser Ser Leu Gly Leu Thr Gly Leu
 35           40           45
Gln Ser Leu Leu Gln Gly Phe Ser Arg Leu Phe Leu Lys Gly Asn Leu
 50           55           60
Leu Arg Gly Ile Asp Ser Leu Phe Ser Ala Pro Met Asp Phe Arg Gly
 65           70           75           80
Leu Pro Gly Asn Tyr His Lys Glu Glu Asn Gln Glu His Gln Leu Gly
 85           90           95
Asn Asn Thr Leu Ser Ser His Leu Gln Ile Asp Lys Arg Thr Asp Asn

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SEQLIST.TXT

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Lys Thr Gly Glu Val Leu Ile Ser Glu Asn Val Val Ala Ser Ile Gln
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Pro Ala Glu Gly Ser Phe Glu Gly Asp Leu Lys Val Pro Arg Met Glu
      130      135      140
Glu Lys Glu Ala Leu Val Pro Ile Gln Lys Ala Thr Asp Ser Phe His
      145      150      155      160
Thr Glu Leu His Pro Arg Val Ala Phe Trp Ile Ile Lys Leu Pro Arg
      165      170      175
Arg Arg Ser His Gln Asp Ala Leu Glu Gly Gly His Trp Leu Ser Glu
      180      185      190
Lys Arg His Arg Leu Gln Ala Ile Arg Asp Gly Leu Arg Lys Gly Thr
      195      200      205
His Lys Asp Val Leu Glu Glu Gly Thr Glu Ser Ser Ser His Ser Arg
      210      215      220
Leu Ser Pro Arg Lys Thr His Leu Leu Tyr Ile Leu Arg Pro Ser Arg
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Gln Leu

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<210> 3
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 <212> DNA
 <213> homo sapien

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catccgggat ggactccgca aggggaccca caaggacgtc ctagaagagg ggaccgagag 660
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<210> 4
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 <212> PRT
 <213> homo sapien

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Leu Leu Leu Leu Ser Thr Leu Val Ile Pro Ser Ala Ala Ala Pro
20     25     30
Ile His Asp Ala Asp Ala Gln Glu Ser Ser Leu Gly Leu Thr Gly Leu
35     40     45
Gln Ser Leu Leu Gln Gly Phe Ser Arg Leu Phe Leu Lys Gly Asn Leu
50     55     60
Leu Arg Gly Ile Asp Ser Leu Phe Ser Ala Pro Met Asp Phe Arg Gly
65     70     75     80
Leu Pro Gly Asn Tyr His Lys Glu Glu Asn Gln Glu His Gln Leu Gly
85     90     95
Asn Asn Thr Leu Ser Ser His Leu Gln Ile Asp Lys Met Thr Asp Asn
100    105    110
Lys Thr Gly Glu Val Leu Ile Ser Glu Asn Val Val Ala Ser Ile Gln
115    120    125

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SEQLIST.TXT

Pro Ala Glu Gly Ser Phe Glu Gly Asp Leu Lys Val Pro Arg Met Glu
 130 135 140
 Glu Lys Glu Ala Leu Val Pro Ile Gln Lys Ala Thr Asp Ser Phe His
 145 150 155 160
 Thr Glu Leu His Pro Arg Val Ala Phe Trp Ile Ile Lys Leu Pro Arg
 165 170 175
 Arg Arg Ser His Gln Asp Ala Leu Glu Gly Gly His Trp Leu Ser Glu
 180 185 190
 Lys Arg His Arg Leu Gln Ala Ile Arg Asp Gly Leu Arg Lys Gly Thr
 195 200 205
 His Lys Asp Val Leu Glu Glu Gly Thr Glu Ser Ser Ser His Ser Arg
 210 215 220
 Leu Ser Pro Arg Lys Thr His Leu Leu Tyr Ile Leu Arg Pro Ser Arg
 225 230 235 240
 Gln Leu

<210> 5
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 <212> DNA
 <213> homo sapien

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 gggcctccct gggaactacc acaaagagga gaaccaggag caccagctgg ggaacaacac 300
 cctctccagc cacctccaga tgcacaagat gaccgacaac aagacaggag aggtgctgat 360
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 ggtacccagg atggaggaga aggaggcctt ggtaccatc cagaaggcca cggacagctt 480
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 catccgggat ggactccgca aggggaccca caaggacgtc ctagaagagg ggaccgagag 660
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 tcggcagctg tag 733

<210> 6
 <211> 242
 <212> PRT
 <213> homo sapien

<400> 6
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 20 25 30
 Ile His Asp Ala Asp Ala Gln Glu Ser Ser Leu Gly Leu Thr Gly Leu
 35 40 45
 Gln Ser Leu Leu Gln Gly Phe Ser Arg Leu Phe Leu Lys Gly Asn Leu
 50 55 60
 Leu Arg Gly Ile Asp Ser Leu Phe Ser Ala Pro Met Asp Phe Arg Gly
 65 70 75 80
 Leu Pro Gly Asn Tyr His Lys Glu Glu Asn Gln Glu His Gln Leu Gly
 85 90 95
 Asn Asn Thr Leu Ser Ser His Leu Gln Ile Asp Lys Met Thr Asp Asn
 100 105 110
 Lys Thr Gly Glu Val Leu Ile Ser Glu Asn Val Val Ala Ser Ile Gln
 115 120 125
 Pro Ala Glu Gly Ser Phe Glu Gly Asp Leu Lys Val Pro Arg Met Glu
 130 135 140
 Glu Lys Glu Ala Leu Val Pro Ile Gln Lys Ala Thr Asp Ser Phe His

SEQLIST.TXT

145		150		155		160
Thr	Glu	Leu	His	Pro	Arg	Val
		165		170		175
Arg	Arg	Ser	His	Gln	Asp	Ala
		180		185		190
Lys	Arg	His	Arg	Leu	Gln	Ala
		195		200		205
His	Lys	Asp	Val	Leu	Glu	Glu
		210		215		220
Leu	Ser	Pro	Arg	Lys	Thr	His
		225		230		235
Gln	Leu					

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 gggcctccct gggaactacc acaaagagga gaaccaggag caccagctgg ggaacaacac 300
 cctctccagc cacctccaga tcgacaagat gaccgacaac aagacaggag aggtgctgat 360
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 <212> PRT
 <213> homo sapien

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			20				25						30	Pro
Ile	His	Asp	Ala	Asp	Ala	Gln	Glu	Ser	Ser	Leu	Gly	Leu	Thr	Gly
		35				40					45			Leu
Gln	Ser	Leu	Leu	Gln	Gly	Phe	Ser	Arg	Leu	Phe	Leu	Lys	Gly	Asn
	50				55					60				Leu
Leu	Arg	Gly	Ile	Asp	Ser	Leu	Phe	Ser	Ala	Pro	Met	Asp	Phe	Arg
65				70					75				80	Gly
Leu	Pro	Gly	Asn	Tyr	His	Lys	Glu	Glu	Asn	Gln	Glu	His	Gln	Leu
			85				90						95	Gly
Asn	Asn	Thr	Leu	Ser	Ser	His	Leu	Gln	Ile	Asp	Lys	Met	Thr	Asp
			100				105						110	Asn
Lys	Thr	Gly	Glu	Val	Leu	Ile	Ser	Glu	Asn	Val	Val	Ala	Ser	Ile
		115				120						125		Gln
Pro	Ala	Glu	Gly	Ser	Phe	Glu	Gly	Asp	Leu	Lys	Val	Pro	Arg	Met
	130				135				140					Glu
Glu	Lys	Glu	Ala	Leu	Val	Pro	Ile	Gln	Lys	Ala	Thr	Asp	Ser	Phe
145			150				155						160	His
Thr	Glu	Leu	His	Pro	Arg	Val	Ala	Phe	Trp	Ile	Ile	Lys	Leu	Pro
			165				170						175	Arg

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Arg Arg Ser His Gln Asp Ala Leu Glu Gly Gly His Trp Leu Ser Glu
 180 185 190
 Lys Arg His Arg Leu Gln Ala Ile Arg Asp Gly Leu Arg Lys Gly Thr
 195 200 205
 His Lys Asp Val Leu Glu Glu Gly Thr Glu Ser Ser Ser His Ser Arg
 210 215 220
 Leu Ser Pro Arg Lys Thr His Leu Leu Tyr Ile Leu Arg Pro Ser Arg
 225 230 235 240
 Gln Leu

<210> 9
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 <213> homo sapien

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<210> 10
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 <212> PRT
 <213> homo sapien

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 20 25 30
 Ile His Asp Ala Asp Ala Gln Glu Ser Ser Leu Gly Leu Thr Gly Leu
 35 40 45
 Gln Ser Leu Leu Gln Gly Phe Ser Arg Leu Phe Leu Lys Gly Asn Leu
 50 55 60
 Leu Arg Gly Ile Asp Ser Leu Phe Ser Ala Pro Met Asp Phe Arg Gly
 65 70 75 80
 Leu Pro Gly Asn Tyr His Lys Glu Glu Asn Gln Glu His Gln Leu Gly
 85 90 95
 Asn Asn Thr Leu Ser Ser His Leu Gln Ile Asp Lys Met Thr Asp Asn
 100 105 110
 Lys Thr Gly Glu Val Leu Ile Ser Glu Asn Val Val Ala Ser Ile Gln
 115 120 125
 Pro Ala Glu Gly Ser Phe Glu Gly Asp Leu Lys Val Pro Arg Met Glu
 130 135 140
 Glu Lys Glu Ala Leu Val Pro Ile Gln Lys Ala Thr Asp Ser Phe His
 145 150 155 160
 Thr Glu Leu His Pro Arg Val Ala Phe Trp Ile Ile Lys Leu Pro Arg
 165 170 175
 Arg Arg Ser His Gln Asp Ala Leu Glu Gly Ser His Trp Leu Ser Glu
 180 185 190
 Lys Arg His Arg Leu Gln Ala Ile Arg Asp Gly Leu Arg Lys Gly Thr

SEQLIST.TXT

195 200 205
 His Lys Asp Val Leu Lys Glu Gly Thr Glu Ser Ser Ser His Ser Arg
 210 215 220
 Leu Ser Pro Arg Lys Thr His Leu Leu Tyr Ile Leu Arg Pro Ser Arg
 225 230 235 240
 Gln Leu

<210> 11
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 catccgggat ggactccgca aggggaccca caaggacgtc ctagaagagg ggaccgagag 660
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<210> 12
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 <213> homo sapien

<400> 12
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 20 25 30
 Ile His Asp Ala Asp Ala Gln Glu Ser Ser Leu Gly Leu Thr Gly Leu
 35 40 45
 Gln Ser Leu Leu Gln Gly Phe Ser Arg Leu Phe Leu Lys Gly Asn Leu
 50 55 60
 Leu Arg Gly Ile Asp Ser Leu Phe Ser Ala Pro Met Asp Phe Arg Gly
 65 70 75 80
 Leu Pro Gly Asn Tyr His Lys Glu Glu Asn Gln Glu His Gln Leu Gly
 85 90 95
 Asn Asn Thr Leu Ser Ser His Leu Gln Ile Asp Lys Met Thr Asp Asn
 100 105 110
 Lys Thr Gly Glu Val Leu Ile Ser Glu Asn Val Val Ala Ser Ile Gln
 115 120 125
 Pro Ala Glu Gly Ser Phe Glu Gly Asp Leu Lys Val Pro Arg Met Glu
 130 135 140
 Glu Lys Glu Ala Leu Val Pro Ile Gln Lys Ala Thr Asp Ser Phe His
 145 150 155 160
 Thr Glu Leu His Pro Arg Val Ala Phe Trp Ile Ile Lys Leu Pro Arg
 165 170 175
 Arg Arg Ser His Gln Asp Ala Leu Glu Gly Gly His Trp Leu Ser Glu
 180 185 190
 Lys Arg His Arg Leu Gln Ala Ile Arg Asp Gly Leu Arg Lys Gly Thr
 195 200 205
 His Lys Asp Val Leu Glu Glu Gly Thr Glu Ser Ser Ser His Ser Arg
 210 215 220

SEQLIST.TXT

Leu Ser Pro Arg Lys Thr His Leu Leu Tyr Ile Leu Arg Pro Ser Arg
 225 230 235 240
 Gln Leu

<210> 13
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 <213> homo sapien

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 <213> homo sapien

<400> 14
 Met Gly Glu Ala Ser Pro Pro Ala Pro Ala Arg Arg His Leu Leu Val
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 20 25 30
 Ile His Asp Ala Asp Ala Gln Glu Ser Ser Leu Gly Leu Thr Gly Leu
 35 40 45
 Gln Ser Leu Leu Gln Gly Phe Ser Arg Leu Phe Leu Lys Gly Asn Leu
 50 55 60
 Leu Arg Gly Ile Asp Ser Leu Phe Ser Ala Pro Met Asp Phe Arg Gly
 65 70 75 80
 Leu Pro Gly Asn Tyr His Lys Glu Glu Asn Gln Glu His Gln Leu Gly
 85 90 95
 Asn Asn Thr Leu Ser Ser His Leu Gln Ile Asp Lys Val Pro Arg Met
 100 105 110
 Glu Glu Lys Glu Ala Leu Val Pro Ile Gln Lys Ala Thr Asp Ser Phe
 115 120 125
 His Thr Glu Leu His Pro Arg Val Ala Phe Trp Ile Ile Lys Leu Pro
 130 135 140
 Arg Arg Arg Ser His Gln Asp Ala Leu Glu Gly Gly His Trp Leu Ser
 145 150 155 160
 Glu Lys Arg His Arg Leu Gln Ala Ile Arg Asp Gly Leu Arg Lys Gly
 165 170 175
 Thr His Lys Asp Val Leu Glu Glu Gly Thr Glu Ser Ser Ser His Ser
 180 185 190
 Arg Leu Ser Pro Arg Lys Thr His Leu Leu Tyr Ile Leu Arg Pro Ser
 195 200 205
 Arg Gln Leu
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<210> 15
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SEQLIST.TXT

<213> homo sapien

<400> 15

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cctctccagc cacctccaga tcgacaagggt acccaggatg gaggagaagg aggccctggt 360
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cagcgagaag cgacaccgcc tgcaggccat ccgggatgga ctccgcaagg ggaccacaa 540
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ccacttactg tacatcctca ggccctctcg gcagctgtag 640
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<210> 16

<211> 211

<212> PRT

<213> homo sapien

<400> 16

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Met Gly Glu Ala Ser Pro Pro Ala Pro Ala Arg Arg His Leu Leu Val
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Leu Leu Leu Leu Leu Ser Thr Leu Val Ile Pro Ser Ala Ala Ala Pro
 20          25          30
Ile His Asp Ala Asp Ala Gln Glu Ser Ser Leu Gly Leu Thr Gly Leu
 35          40          45
Gln Ser Leu Leu Gln Gly Phe Ser Arg Leu Phe Leu Lys Gly Asn Leu
 50          55          60
Leu Arg Gly Ile Asp Ser Leu Phe Ser Ala Pro Met Asp Phe Arg Gly
 65          70          75          80
Leu Pro Gly Asn Tyr His Lys Glu Glu Asn Gln Glu His Gln Leu Gly
 85          90          95
Asn Asn Thr Leu Ser Ser His Leu Gln Ile Asp Lys Val Pro Arg Met
100          105          110
Glu Glu Lys Glu Ala Leu Val Pro Ile Gln Lys Ala Thr Asp Ser Phe
115          120          125
His Thr Glu Leu His Pro Arg Val Ala Phe Trp Ile Ile Lys Leu Pro
130          135          140
Arg Arg Arg Ser His Gln Asp Ala Leu Glu Gly Gly His Trp Leu Ser
145          150          155          160
Glu Lys Arg His Arg Leu Gln Ala Ile Arg Asp Gly Leu Arg Lys Gly
165          170          175
Thr His Lys Asp Val Leu Glu Glu Glu Thr Glu Ser Ser Ser His Ser
180          185          190
Arg Leu Ser Pro Arg Lys Thr His Leu Leu Tyr Ile Leu Arg Pro Ser
195          200          205
Arg Gln Leu
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<210> 17

<211> 499

<212> DNA

<213> homo sapien

<400> 17

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agagagctcc ttgggtctca caggcctcca gagcctactc caaggcttca gccgactttt 180
cctgaaagta cccaggatgg aggagaagga ggcccttgga cccatccaga aggccacgga 240
cagcttccac acagaactcc atccccgggt ggcttcttgg atcattaagc tgccacggcg 300
gaggtcccac caggatgccc tggagggcag ccactggctc agcgagaagc gacaccgcct 360
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SEQLIST.TXT

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gccctctcgg cagctgtag 499

<210> 18
<211> 164
<212> PRT
<213> homo sapien

<400> 18
Met Gly Glu Ala Ser Pro Pro Ala Pro Ala Arg Arg His Leu Leu Val
1 5 10 15
Leu Leu Leu Leu Ser Thr Leu Val Ile Pro Ser Ala Ala Ala Pro
20 25 30
Ile His Asp Ala Asp Ala Gln Glu Ser Ser Leu Gly Leu Thr Gly Leu
35 40 45
Gln Ser Leu Leu Gln Gly Phe Ser Arg Leu Phe Leu Lys Val Pro Arg
50 55 60
Met Glu Glu Lys Glu Ala Leu Val Pro Ile Gln Lys Ala Thr Asp Ser
65 70 75 80
Phe His Thr Glu Leu His Pro Arg Val Ala Phe Trp Ile Ile Lys Leu
85 90 95
Pro Arg Arg Arg Ser His Gln Asp Ala Leu Glu Gly Ser His Trp Leu
100 105 110
Ser Glu Lys Arg His Arg Leu Gln Ala Ile Arg Asp Gly Leu Arg Lys
115 120 125
Gly Thr His Lys Asp Val Leu Lys Glu Gly Thr Glu Ser Ser Ser His
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Ser Arg Gln Leu

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<213> homo sapien

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<212> PRT
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Leu Leu Leu Leu Leu Ser Thr Leu Val Ile Pro Ser Ala Ala Ala Pro
20 25 30
Ile His Asp Ala Asp Ala Gln Glu Ser Ser Leu Gly Leu Thr Gly Leu
35 40 45
Gln Ser Leu Leu Gln Gly Phe Ser Arg Leu Phe Leu Lys Val Pro Arg
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Phe His Thr Glu Leu His Pro Arg Val Ala Phe Trp Ile Ile Lys Leu
85          90          95
Pro Arg Arg Arg Ser His Gln Asp Ala Leu Glu Gly Ser His Trp Leu
100         105         110
Ser Glu Lys Arg His Arg Leu Gln Ala Ile Arg Asp Gly Leu Arg Lys
115         120         125
Gly Thr His Lys Asp Val Leu Lys Glu Gly Thr Glu Ser Ser Ser His
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Ser Arg Gln Leu

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<210> 22
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Ile His Asp Ala Asp Ala Gln Glu Ser Ser Leu Gly Leu Thr Gly Leu
35         40         45
Gln Ser Leu Leu Gln Gly Phe Ser Arg Leu Phe Leu Lys Val Pro Arg
50         55         60
Met Glu Glu Lys Glu Ala Leu Val Pro Ile Gln Lys Ala Thr Asp Ser
65         70         75         80
Phe His Thr Glu Leu His Pro Arg Val Ala Phe Trp Ile Ile Lys Leu
85         90         95
Pro Arg Arg Arg Ser His Gln Asp Ala Leu Glu Gly Ser His Trp Leu
100        105        110
Ser Glu Lys Arg His Arg Leu Gln Ala Ile Arg Asp Gly Leu Arg Lys
115        120        125
Gly Thr His Lys Asp Val Leu Glu Glu Gly Thr Glu Ser Ser Ser His
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Ser Arg Gln Leu

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SEQLIST.TXT

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 Ile His Asp Ala Asp Ala Gln Glu Ser Ser Leu Gly Leu Thr Gly Leu
 35 40 45
 Gln Ser Leu Leu Gln Gly Phe Ser Arg Leu Phe Leu Lys Val Pro Arg
 50 55 60
 Met Glu Glu Lys Glu Ala Leu Val Pro Ile Gln Lys Ala Thr Asp Ser
 65 70 75 80
 Phe His Thr Glu Leu His Pro Arg Val Ala Phe Trp Ile Ile Lys Leu
 85 90 95
 Pro Arg Arg Arg Ser His Gln Asp Ala Leu Glu Gly Ser His Trp Leu
 100 105 110
 Ser Glu Lys Arg His Arg Leu Gln Ala Ile Arg Asp Gly Leu Arg Lys
 115 120 125
 Gly Thr His Lys Asp Val Leu Lys Glu Gly Thr Glu Ser Ser Ser His
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 Ser Arg Gln Leu

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<210> 26

SEQLIST.TXT

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<400> 26
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 20 25 30
 Ile His Asp Ala Asp Ala Gln Glu Ser Ser Leu Gly Leu Thr Gly Leu
 35 40 45
 Gln Ser Leu Leu Gln Gly Phe Ser Arg Leu Phe Leu Lys Val Pro Arg
 50 55 60
 Met Glu Glu Lys Glu Ala Leu Val Pro Ile Gln Lys Ala Thr Asp Ser
 65 70 75 80
 Phe His Thr Glu Leu His Pro Arg Val Ala Phe Trp Ile Ile Lys Leu
 85 90 95
 Pro Arg Arg Arg Ser His Gln Asp Ala Leu Glu Gly Ser His Trp Leu
 100 105 110
 Ser Glu Lys Arg His Arg Leu Gln Ala Ile Arg Asp Gly Leu Arg Lys
 115 120 125
 Gly Thr His Lys Asp Val Leu Lys Glu Gly Thr Glu Ser Ser Ser His
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 Ser Arg Leu Ser Pro Arg Lys Thr His Leu Leu Tyr Ile Leu Arg Pro
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 Ser Arg Gln Leu

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<400> 28

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